

FIG. 2

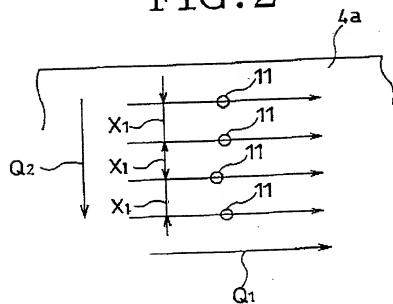
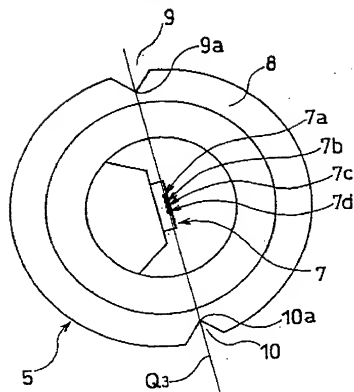


FIG. 3



The diagram illustrates a sensor array and its output. On the left, a horizontal array of four square sensors is shown. A vertical arrow labeled  $Q_1$  points upwards, and a horizontal arrow labeled  $Q_2$  points to the right. A diagonal line passes through the sensors. The vertical positions of the sensors are marked as  $t_1, t_2, t_3$  from bottom to top. The horizontal positions are marked as  $X_1, X_1, X_1$  from left to right. The sensors are labeled  $Q_3, Q_2, Q_1, Q_0$  from left to right. On the right, a vertical axis labeled  $a$  shows four rectangular pulses. The pulses are labeled  $11, 12, 11, 12$  from bottom to top. A bracket labeled  $4a$  spans the four pulses. Below the pulses, a horizontal line labeled  $b$  has four circles connected by lines to the pulses. The circles are labeled  $11, 11, 11, 11$  from left to right.

Write after  $t = t_0'$  from  
when a beam spot is detected by a sensor

Detect the head beam spot at  $t = t_0$

FIG. 5(a)

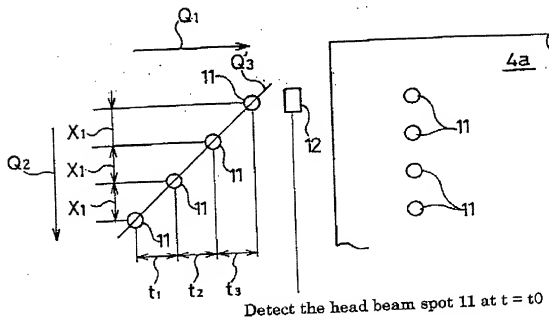


FIG. 5(b)

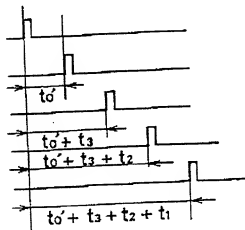


FIG. 6

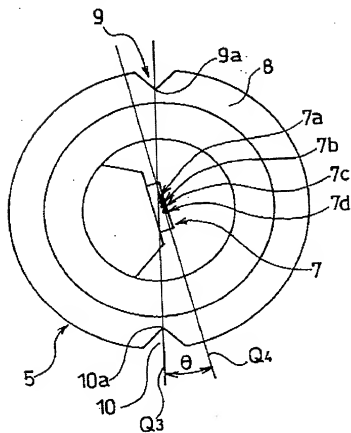


FIG. 7

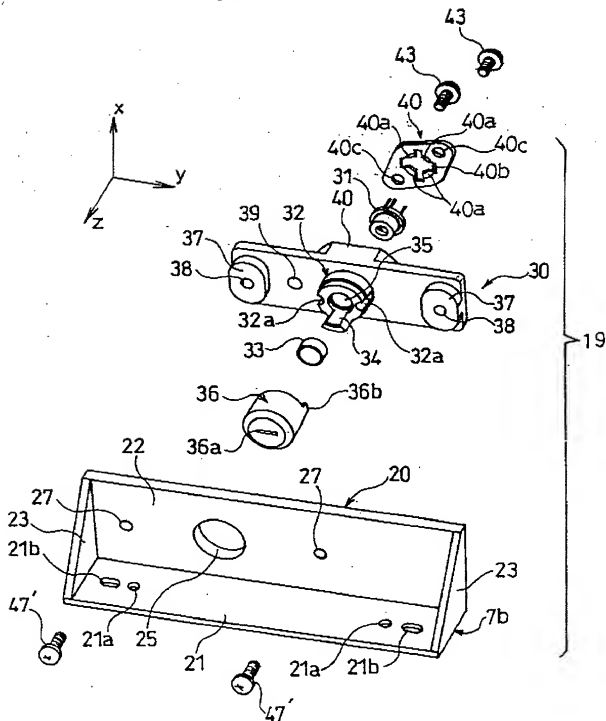


FIG. 8

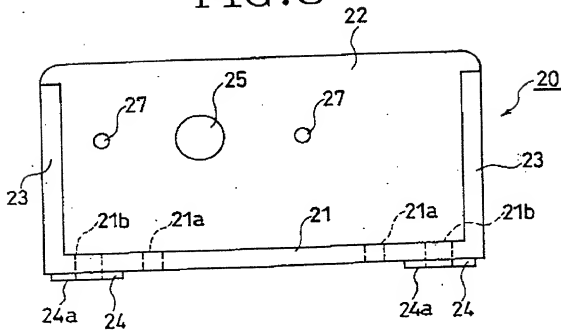


FIG. 9

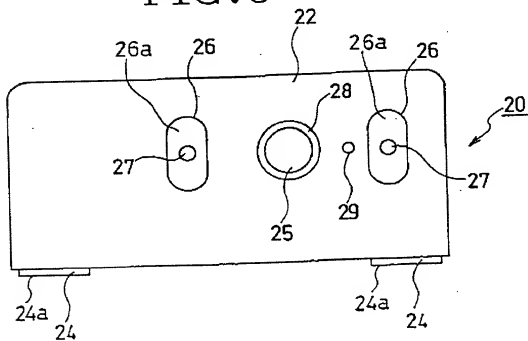




FIG. 10

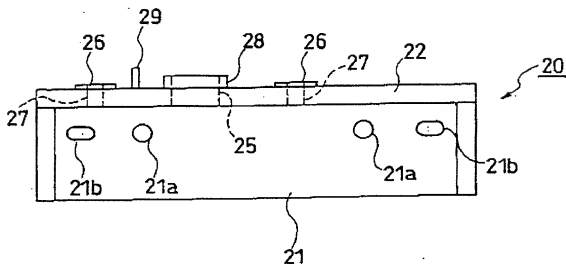


FIG. 11

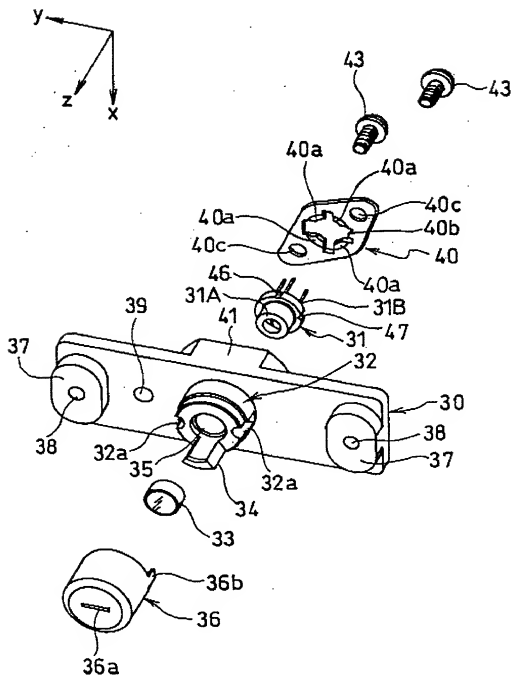


FIG. 12

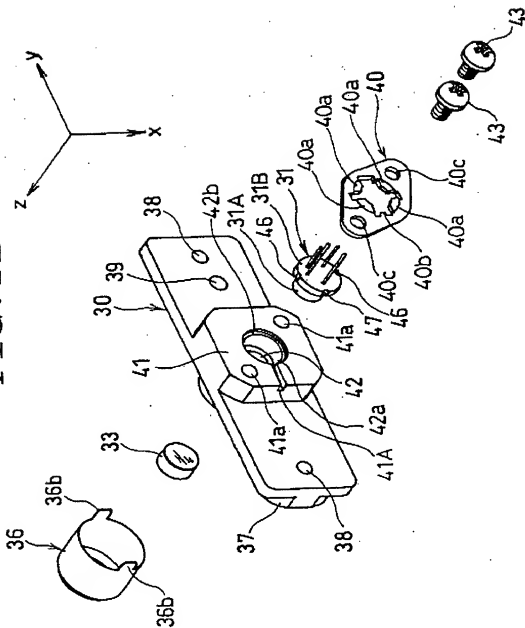


FIG. 13

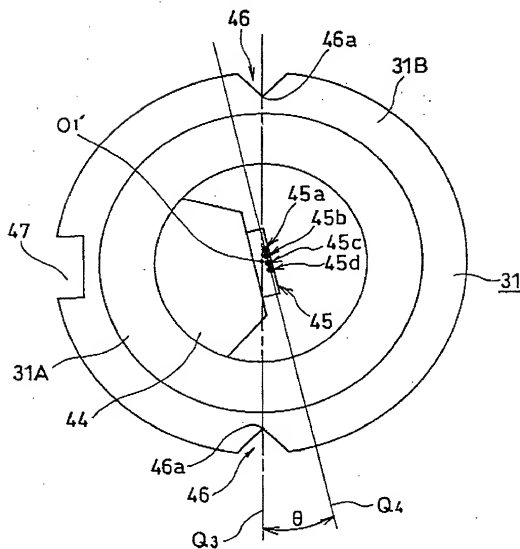


FIG. 14

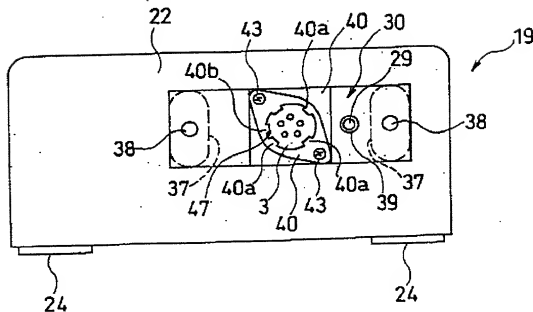


FIG. 15

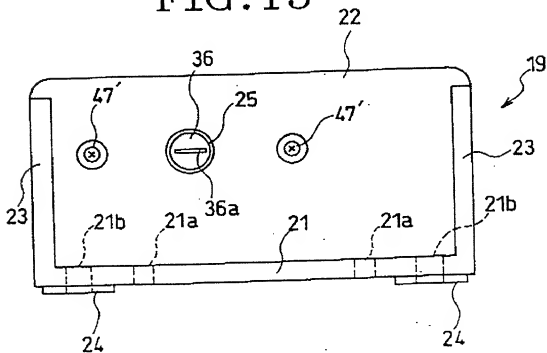


FIG. 16

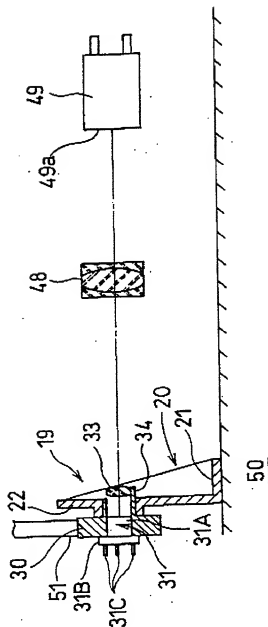


FIG. 17

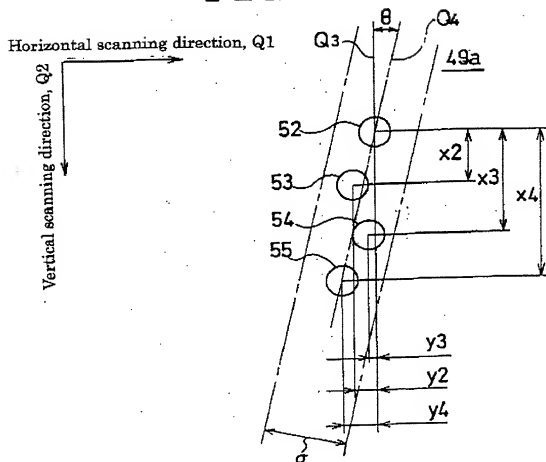


FIG. 18

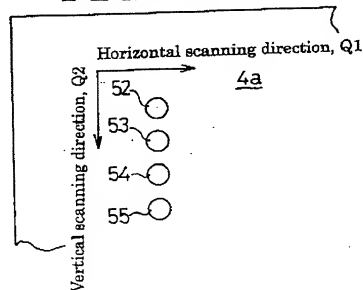


FIG. 19

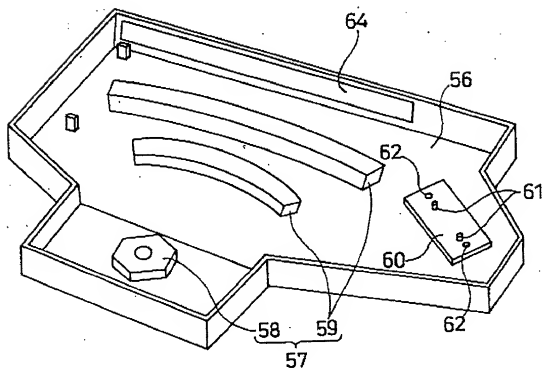




FIG. 20

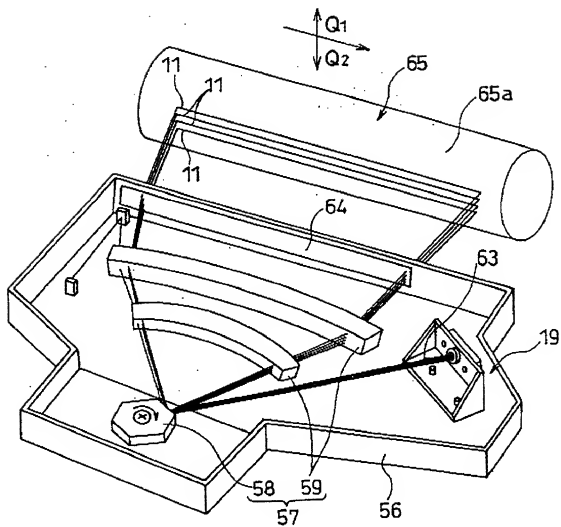


FIG. 21

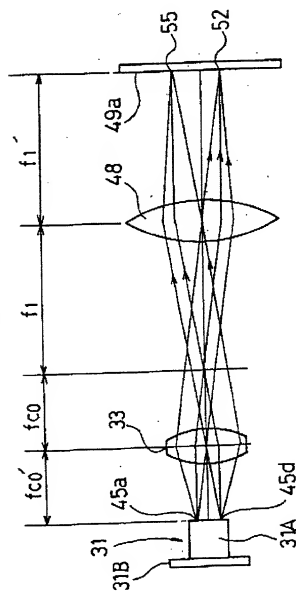


FIG. 22

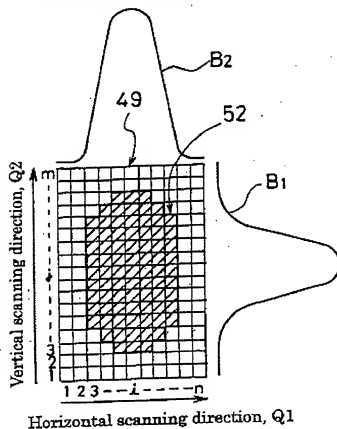


FIG. 23

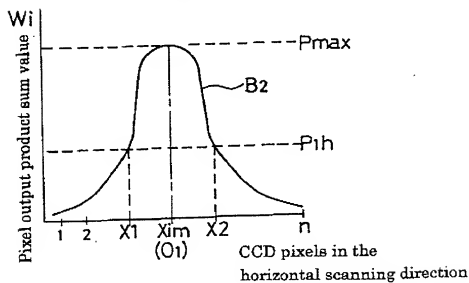


FIG. 24

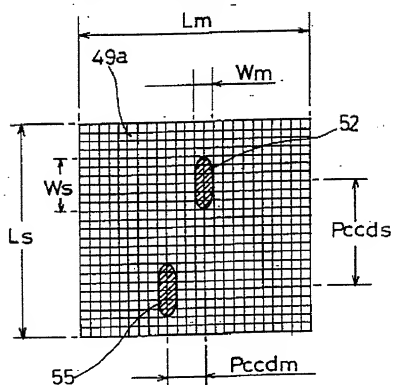


FIG. 25

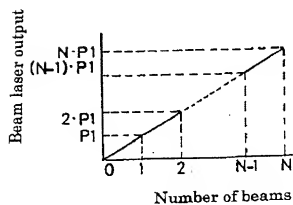


FIG. 26

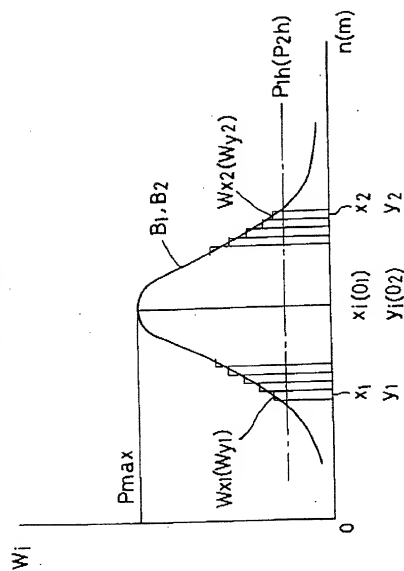


FIG. 27

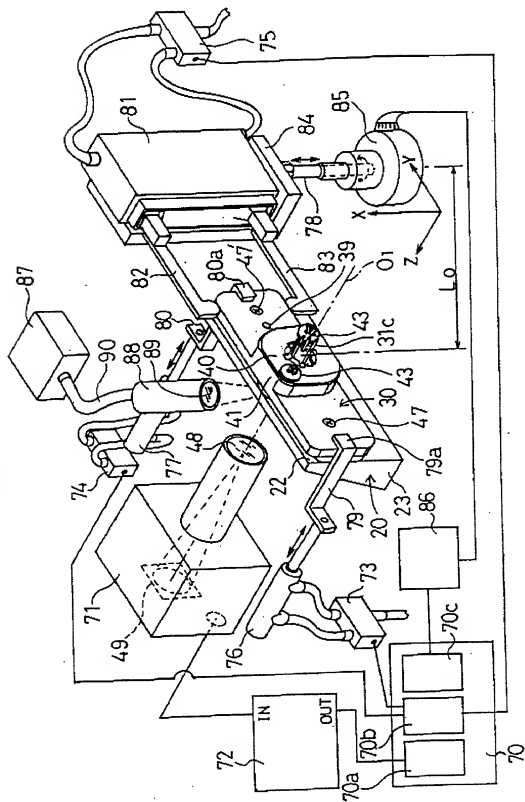


FIG. 28

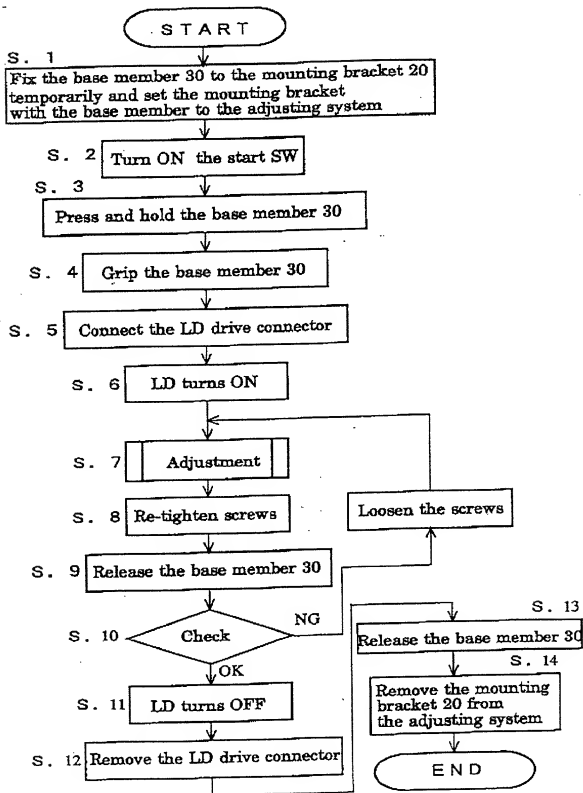


FIG. 29

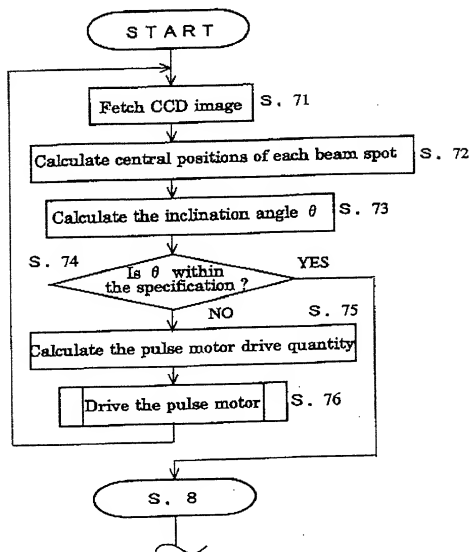




FIG. 30

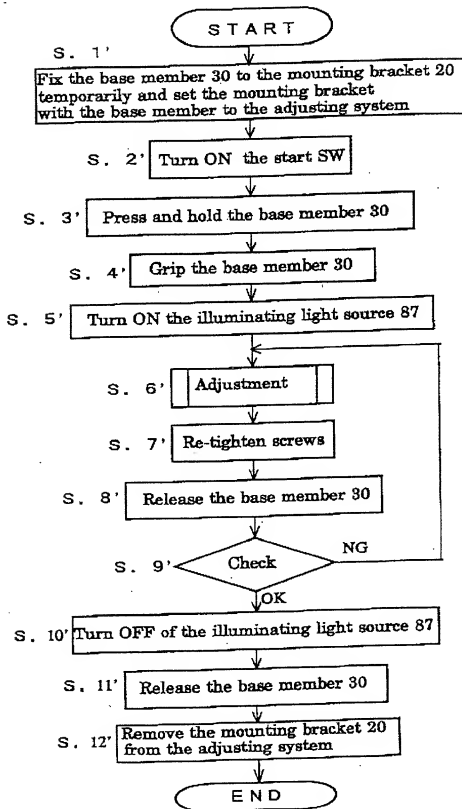


FIG. 31

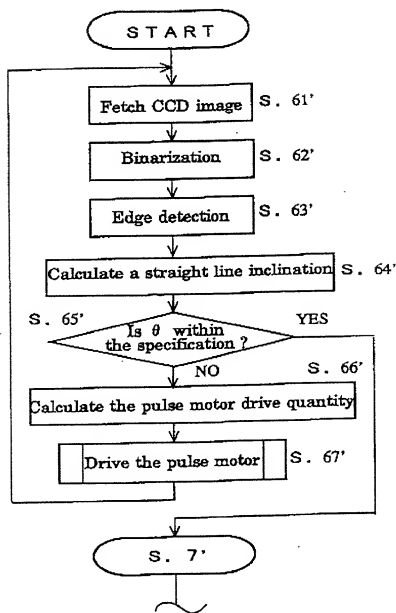


FIG. 32(a) FIG. 32(b)

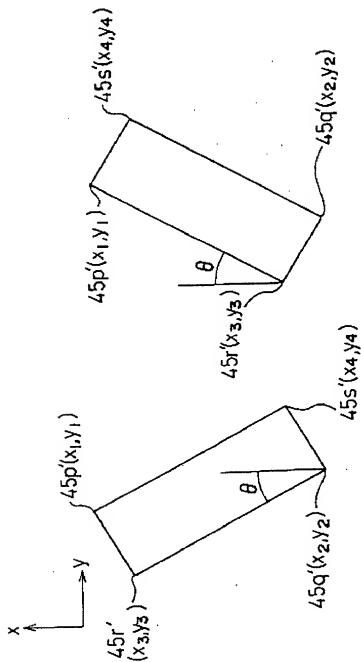
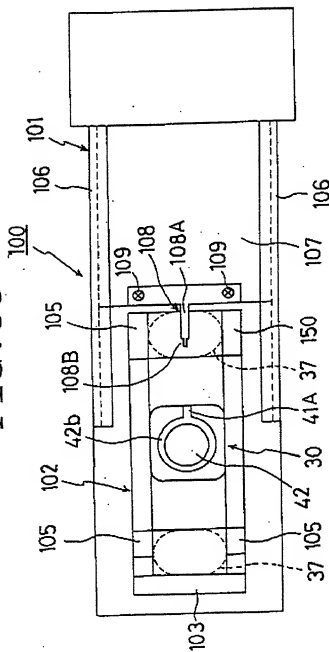


FIG. 33



[illegible]